

CLAIMS

1. An information recording apparatus comprising:

a recording device for recording information onto an
5 information recording medium;

a detrack detecting device for detecting occurrence of detrack
during the recording of the information; and

a controlling device for controlling said recording device to
return to a location where the detrack has occurred and restart the
10 recording if the occurrence of the detrack is detected.

2. The information recording apparatus according to claim 1,
wherein

said information recording apparatus further comprises a
15 buffer of a predetermined size for buffering the information and
supplying it to said recording device, and

said controlling device controls said buffer and said recording
device to restart the recording from a location where the recording is
to be restarted with using the information stored in said buffer.

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3. The information recording apparatus according to claim 2,
wherein the predetermined size is equal to or greater than an
error-correctable minimum unit.

25 4. The information recording apparatus according to claim 1,
wherein

said information recording apparatus further comprises a judging device for judging whether or not error correction can be performed with respect to an area of a detrack destination into which said recording device incorrectly records the information, if the
5 occurrence of the detrack is detected, and

said controlling device controls said recording device to return to the location where the detrack has occurred and restart the recording in such a condition that it is judged that the error correction can be performed.

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5. The information recording apparatus according to claim 4, wherein said controlling device controls said recording device to register the area of the detrack destination, as an unallocated area, and to return to the location where the detrack has occurred and to
15 restart the recording if it is judged that the error correction cannot be performed.

6. The information recording apparatus according to claim 4, wherein said controlling device controls said recording device to
20 further register the area of the detrack destination incorrectly recorded, as a caution area if it is judged that the error correction can be performed.

7. The information recording apparatus according to claim 6,
25 wherein said controlling device controls said recording device to register the caution area as an unallocated area if the area of the

detrack destination is the caution area.

8. The information recording apparatus according to claim 1, wherein said controlling device controls said recording device to
5 register an area in another layer corresponding to the area of a detrack destination in one layer incorrectly recorded, as an unallocated area, when the information recording medium is an information recording medium having a multiple recording layers.

10 9. An information recording method comprising:
a recording process of recording information onto an information recording medium;
a detrack detecting process of detecting occurrence of detrack during the recording of the information; and
15 a controlling process of controlling said recording device to return to a location where the detrack has occurred and restart the recording if the occurrence of the detrack is detected.

10. A computer program for record control to control a computer
20 provided for the information recording apparatus according to claim 1, said computer program making the computer function as at least one portion of said recording device, said detrack detecting device and said controlling device.